Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

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1 – 8. canceled

9. (currently amended) In a hybrid spread spectrum system including an outdoor unit and an indoor unit for wirelessly transmitting and receiving wideband digital data, the indoor unit comprising a transmitter/receiver unit and a ~~means~~ processor for dynamically changing ~~the~~ center transmission and reception frequencies in real-time ~~in less than 100 milliseconds~~, a method for transmitting power, control and RF signals between the indoor and outdoor units, the method comprising ~~the steps~~ acts of:

coupling a single coaxial cable between the indoor unit and the outdoor unit; and

transmitting the control, power and RF signals between the indoor unit and the outdoor unit over the single coaxial cable.

10. (currently amended) The ~~system~~ method as claimed in claim 9, ~~wherein the step of~~ further comprising an act of dynamically changing the transmission and reception frequencies ~~is performed~~ in less than about 100 ~~10~~ milliseconds.

11. (currently amended) The ~~system~~ method as claimed in claim 9, ~~wherein the system uses~~ further comprising an act of transmitting the wideband digital data using time division ~~duplex~~ multiplexing techniques.

12. canceled.

13. (currently amended) The ~~system~~ method as claimed in claim 9, ~~wherein the system includes means for~~ further comprising an act of collecting status information for each user of the system.

14. canceled.

15. (newly added) The method as claimed in claim 9, further comprising an act of controlling at least some components of the outdoor unit with the control signals transmitted between the indoor unit and the outdoor unit over the coaxial cable.

16. (newly added) The method as claimed in claim 15, wherein the act of controlling includes controlling the transmitter/receiver unit of the outdoor unit to dwell on any one of the transmission and reception frequencies for less than about 100 milliseconds.

17. (newly added) The method as claimed in claim 9, further comprising an act of formatting the digital data to provide formatted data.

18. (newly added) The method as claimed in claim 17, further comprising an act of coding the formatted data to obtain encoded data.

19. (newly added) The method as claimed in claim 9, further comprising an act of transmitting a precision clock signal over the coaxial cable from the indoor unit to the outdoor unit.

20. (newly added) A method for communicating in a spread spectrum system comprising an indoor unit and an outdoor unit, the method comprising acts of:

transmitting a radio-frequency (RF) signal, a power signal and a control signal over a single coaxial cable coupled between the indoor unit and the outdoor unit;

providing power to the outdoor unit with the power signal; and

controlling at least some components of the outdoor unit with the control signal.

21. (newly added) The method as claimed in claim 20, further comprising an act of:

dynamically changing a center frequency of the RF signal such that a dwell time on any center frequency is less than about 100 milliseconds.

22. (newly added) The method as claimed in claim 20, further comprising acts of:

wirelessly transmitting the RF signal from the outdoor unit at a plurality of frequency bands, each frequency band having a center frequency; and

dynamically changing between the plurality of frequency bands such that each center frequency is selected for transmission for a time period of less than about 100 milliseconds.

23. (newly added) The method as claimed in claim 20, further comprising an act of modulating the RF signal with digital data.

24. (newly added) The method as claimed in claim 20, further comprising an act of formatting the digital data to provide formatted digital data.

25. (newly added) The method as claimed in claim 24, further comprising an act of coding the formatted digital data to obtain coded data; and wherein the act of modulating the RF signal includes modulating the RF signal with the coded data.

26. (newly added) The method as claimed in claim 20, further comprising an act of transmitting a precision clock signal over the coaxial cable from the indoor unit to the outdoor unit.

27. (newly added) A spread spectrum communication system comprising:

an outdoor unit comprising an antenna and a receiver front end;

an indoor unit comprising a processor and an RF module, the RF module including a transmitter circuit to generate transmit RF signals and a receiver circuit to process received RF signals;

a coaxial cable coupled between the indoor unit and the outdoor unit;

wherein the indoor unit is adapted to provide power signals, control signals, and the transmit RF signals for transmission by the antenna, to the outdoor unit over the coaxial cable; and

wherein the outdoor unit is adapted to send the received RF signals to the indoor unit over the coaxial cable.

28. (newly added) The spread spectrum communication system as claimed in claim 27, wherein the transmitter circuit is adapted to generate the transmit RF signals in a plurality of frequency bands, each frequency band having a corresponding center frequency; and wherein the processor is adapted to select between the plurality of frequency bands such that a dwell time on each of the center frequencies is less than about 100 milliseconds.

29. (newly added) The spread spectrum communication system as claimed in claim 28, wherein the antenna is adapted to wirelessly transmit the transmit RF signals and to receive the received RF signals from a plurality of remote locations.

30. (newly added) The spread spectrum communication system as claimed in claim 29, wherein the indoor unit is adapted to generate formatted digital data and modulate the transmit RF signals with the formatted digital data.

31. (newly added) The spread spectrum communication system as claimed in claim 30, wherein the indoor unit is further configured to code the formatted digital data to obtain coded data and to modulate the transmit RF signal with the coded data.

32. (newly added) The spread spectrum communication system as claimed in claim 27, wherein the indoor unit is adapted to control the outdoor unit with the control signals provided to the outdoor unit over the coaxial cable.

33. (newly added) The spread spectrum communication system as claimed in claim 27, wherein the indoor unit is further adapted to transmit a precision clock signal over the coaxial cable to the outdoor unit.